

Padigaru, et al.
U.S.S.N. 10/051,874

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. – 41. (Cancelled)

42. (New) An isolated polynucleotide comprising a nucleic acid sequence encoding a polypeptide comprising the amino acid sequence of SEQ ID NO: 18.

43. (New) An isolated polynucleotide comprising a nucleic acid sequence encoding a polypeptide comprising an amino acid sequence of SEQ ID NO:18, except wherein the polypeptide has one or more amino acid changes selected from the group consisting of a proline at amino acid position 87, a proline at amino acid position 98, and an isoleucine at amino acid position 128.

44 (New) An isolated polynucleotide comprising a nucleic acid sequence encoding a mature form of a polypeptide comprising the amino acid sequence of SEQ ID NO: 18.

45. (New) An isolated polynucleotide comprising a nucleic acid sequence encoding a mature form of a polypeptide comprising an amino acid sequence of SEQ ID NO:18, except wherein the polypeptide has one or more amino acid changes selected from the group consisting of a proline at amino acid position 87, a proline at amino acid position 98, and an isoleucine at amino acid position 128.

46. (New) An isolated polynucleotide comprising the nucleic acid sequence of SEQ ID NO: 17.

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47. (New) An isolated polynucleotide comprising the nucleic acid sequence of SEQ ID NO: 17, except wherein the polynucleotide has one or more nucleotide changes selected from the group consisting of a cytosine at position 262, a cytosine at position 296 and an adenine at position 385.

48. (New) An isolated polynucleotide comprising a complement of the nucleic acid sequence encoding a polypeptide comprising the amino acid sequence of SEQ ID NO: 18.

49. (New) An isolated polynucleotide comprising a complement of the nucleic acid sequence encoding a polypeptide comprising the amino acid sequence of SEQ ID NO: 18, except wherein the polypeptide has one or more amino acid changes selected from the group consisting of a proline at amino acid position 87, a proline at amino acid position 98, and an isoleucine at amino acid position 128.

50. (New) An isolated polynucleotide comprising a complement of the nucleic acid sequence of SEQ ID NO: 17.

51. (New) An isolated polynucleotide comprising a complement of the nucleic acid sequence of SEQ ID NO: 17, except wherein the polynucleotide has one or more nucleotide changes selected from the group consisting of a guanine at position 262, a guanine at position 296 and a thymine at position 385.

52. (New) A vector comprising the nucleic acid sequence of claim 42.

53. (New) A vector comprising the nucleic acid sequence of claim 43.

55. (New) A vector of claim 52, further comprising a promoter operably-linked to said nucleic acid molecule.

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56. (New) A vector of claim 53, further comprising a promoter operably-linked to said nucleic acid molecule.
57. (New) A cell comprising the vector of claim 52.
58. (New) A cell comprising the vector of claim 53.
59. (New) A composition comprising the nucleic acid molecule of claim 42 and a carrier.
60. (New) A composition comprising the nucleic acid molecule of claim 43 and a carrier.
61. (New) A kit comprising in one or more containers, the composition of claim 59.
62. (New) A kit comprising in one or more containers, the composition of claim 60.
63. (New) An isolated polynucleotide consisting of a nucleic acid sequence encoding a polypeptide consisting of the amino acid sequence of SEQ ID NO: 18.
64. (New) An isolated polynucleotide consisting of a nucleic acid sequence encoding a mature form of a polypeptide comprising the amino acid sequence of SEQ ID NO: 18.